

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-10. (Cancelled)

11. (New) A system comprising:

first and second color liquid crystal on silicon (LCoS) display panels; and  
a polarizing beam splitter assembly configured so that during operation the polarizing beam splitter assembly combines a portion of a first light beam reflected by the first display panel with a portion of the second light beam reflected by the second display panel to form an image beam, and the combined portions of the first and second light beams have mutually orthogonal polarization states.

12. (New) The system of claim 11, wherein the first and second color display panels each comprise a micro dichroic filter array.

13. (New) The system of claim 12, wherein the micro dichroic filter arrays are configured to transmit primary colors.

14. (New) The system of claim 13, wherein the micro dichroic filter arrays are configured to transmit different primary colors.

15. (New) The system of claim 12, wherein elements of the micro dichroic filter array of the first display panel are configured to transmit either red, green, or blue light.

16. (New) The system of claim 15, wherein elements of the micro dichroic filter array of the second display panel are configured to transmit either red, green, and blue light.

17. (New) The system of claim 15, wherein elements of the micro dichroic filter array of the second display panel are configured to transmit either cyan, magenta, and yellow light.

18. (New) The system of claim 11, wherein the first and second color display panels are located at adjacent surfaces of the polarizing beam splitter assembly.

19. (New) The system of claim 11, wherein the first and second color display panels are located at opposite surfaces of the polarizing beam splitter assembly.

20. (New) The system of claim 11, wherein the polarizing beam splitter assembly is configured to split an illumination beam into a first input light beam and a second input light beam and direct the first input light beam towards the first display panel and the second input light beam towards the second display panel.

21. (New) The system of claim 20, wherein polarizing beam splitter assembly is configured so that the first and second input light beams have mutually orthogonal polarization states.

22. (New) The system of claim 21, wherein system is configured so that the first input light beam and the portion of the first light beam reflected from the first display panel have mutually orthogonal polarization states.

23. (New) The system of claim 22, wherein the system is configured so that the second input light beam and the portion of the second light beam reflected from the second display panel have mutually orthogonal polarization states.

24. (New) The system of claim 11, wherein the polarizing beam splitter assembly comprises a single polarizing beam splitter.

25. (New) The system of claim 11, wherein the polarizing beam splitter assembly comprises a plurality of polarizing beam splitters.
26. (New) The system of claim 11, wherein the polarizing beam splitter assembly comprises a plurality of prisms arranged as a square.
27. (New) The system of claim 26, wherein the prisms are right angle prisms.
28. (New) The system of claim 27, wherein the right angle prisms have polarizing beam splitter coatings on their right angle surfaces.
29. (New) The system of claim 11, wherein the polarizing beam splitter assembly comprises four polarizing beam splitter coatings arranged as a cross.
30. (New) The system of claim 11, wherein the polarizing beam splitter assembly comprises four polarizing beam splitter cubes.
31. (New) The system of claim 30, wherein the four polarizing beam splitter cubes are arranged as a square.
32. (New) The system of claim 31, further comprising half wave plates positioned between the polarizing beam splitter cubes.
33. (New) The system of claim 11, further comprising a projection lens configured to amplify the image beam.
34. (New) The system of claim 11, further comprising first and second quarter wave plates respectively located between the first and second display panels and the polarizing beam splitter assembly.

35. (New) The system of claim 11, wherein during operation the first and second display panels modulate the portions of the first and second light beams reflected from the display panels so that the first and second light beam portions correspond to different view angles of an image.

36. (New) The system of claim 11, wherein during operation the first and second display panels modulate the portions of the first and second light beams reflected from the display panels so that the first and second light beam portions correspond to the same view angle of an image.

37. (New) A system comprising:

first and second liquid crystal on silicon (LCoS) display panels each comprising a micro dichroic filter array; and

a polarizing beam splitter assembly configured so that during operation the polarizing beam splitter assembly combines a portion of a first light beam reflected by the first display panel with a portion of the second light beam reflected by the second display panel to form an image beam, and the combined portions of the first and second light beams have mutually orthogonal polarization states

38. (New) A system, comprising:

a polarizing beam splitter assembly including a plurality of polarizing beam splitter coatings arranged in orthogonal planes; and

first and second display panels positioned relative to the polarizing beam splitter assembly so that during operation the polarizing beam splitter assembly combines light reflected from the first and second display panels to form an image beam.

39. (New) The system of claim 38, wherein the polarizing beam splitter assembly comprises a plurality of polarizing beam splitter cubes.

40. (New) The system of claim 39, further comprising one or more half wave plates positioned between the polarizing beam splitter cubes.

41. (New) The system of claim 38, wherein the polarizing beam splitter assembly comprises a plurality of right angle prisms.

42. (New) The system of claim 41, wherein the polarizing beam splitter coatings are positioned on right angle surfaces of the right angle prisms.

43. (New) A method comprising:

directing a first beam to reflect from a first color liquid crystal on silicon (LCoS) display panel and a second beam to reflect from a second color LCoS display panel; and  
combining a portion of the first light beam reflected by the first display panel with a portion of the second light beam reflected by the second display panel to form an image beam,

wherein the combined portions of the first and second light beams have mutually orthogonal polarization states.

44. (New) The method of claim 43, further comprising modulating the portions of the first and second light beams with the first and second display panels so that the reflected first and second light beam portions correspond to different view angles of an image.

45. (New) The method of claim 44, wherein the elements of the first and second display panels reflect red, green, and blue light, respectively.

45. (New) The method of claim 43, further comprising modulating the portions of the first and second light beams with the first and second display panels so that the reflected first and second light beam portions correspond to the same view angle of an image.

46. (New) The method of claim 45, wherein elements of the first display panel reflect red, green, and blue light, respectively, and elements of the second display panel reflect cyan, magenta, and yellow light, respectively.

47. (New) The method of claim 43, further comprising splitting an input beam to form the first and second beams.

48. (New) The method of claim 47, wherein the first and second beams have mutually orthogonal polarization states.

49. (New) The method of claim 43, further comprising amplifying the image beam.